

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P979153

Luminaire Tested: **WPMLED26S-70W-3000K**

Issue Date: 03/31/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P979153  
Test Lab: Cooper Lighting Solutions  
Issue Date: 03/31/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPMLD26S-70W-3000K  
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE  
OPERATING @70W-3000K  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

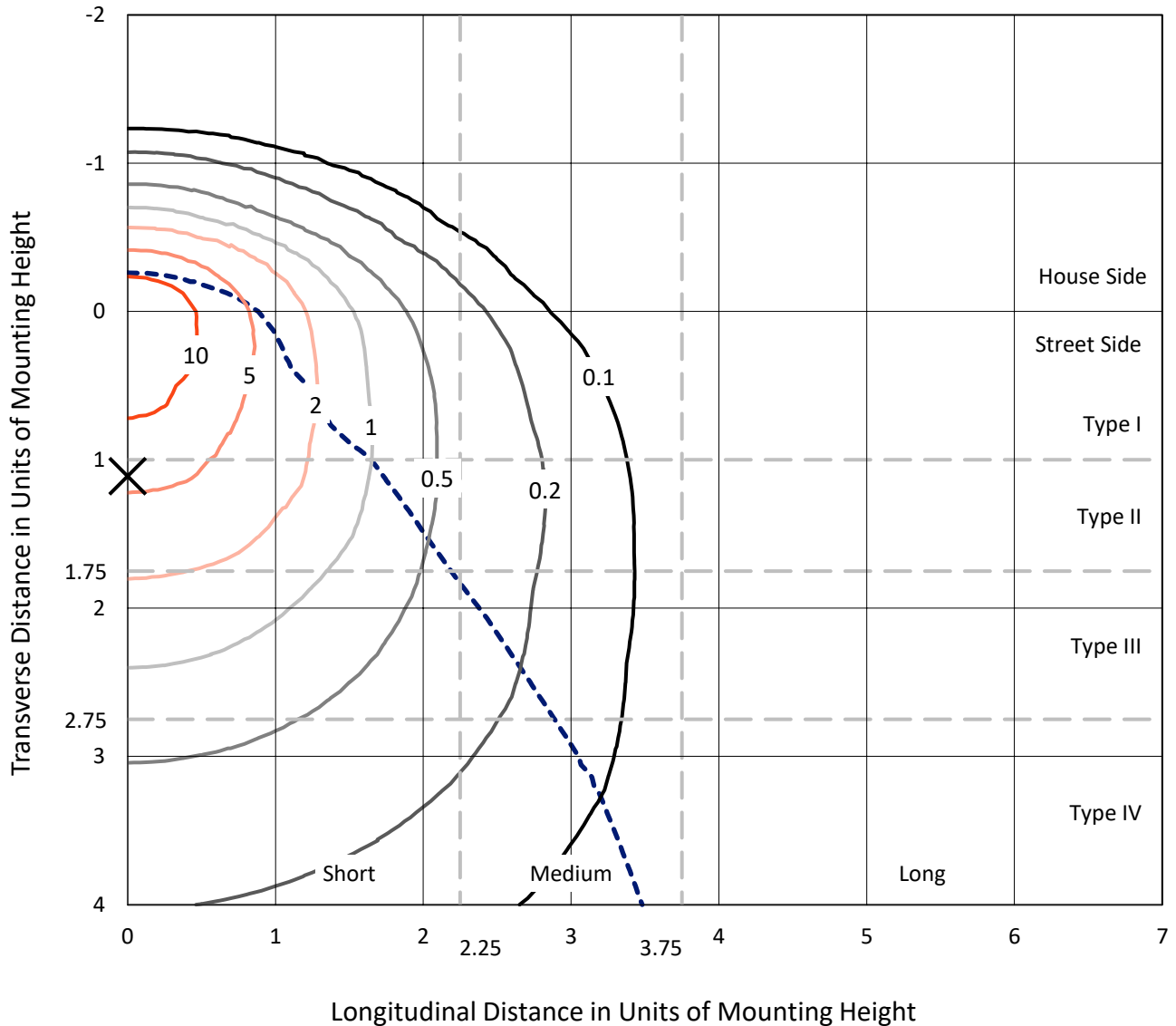
Lumens per Lamp: N/A  
Luminaire Lumens: 11079.2 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U3 - G5

Input Watts (W): 73.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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### Iso-Footcandle Lines of Horizontal Illumination

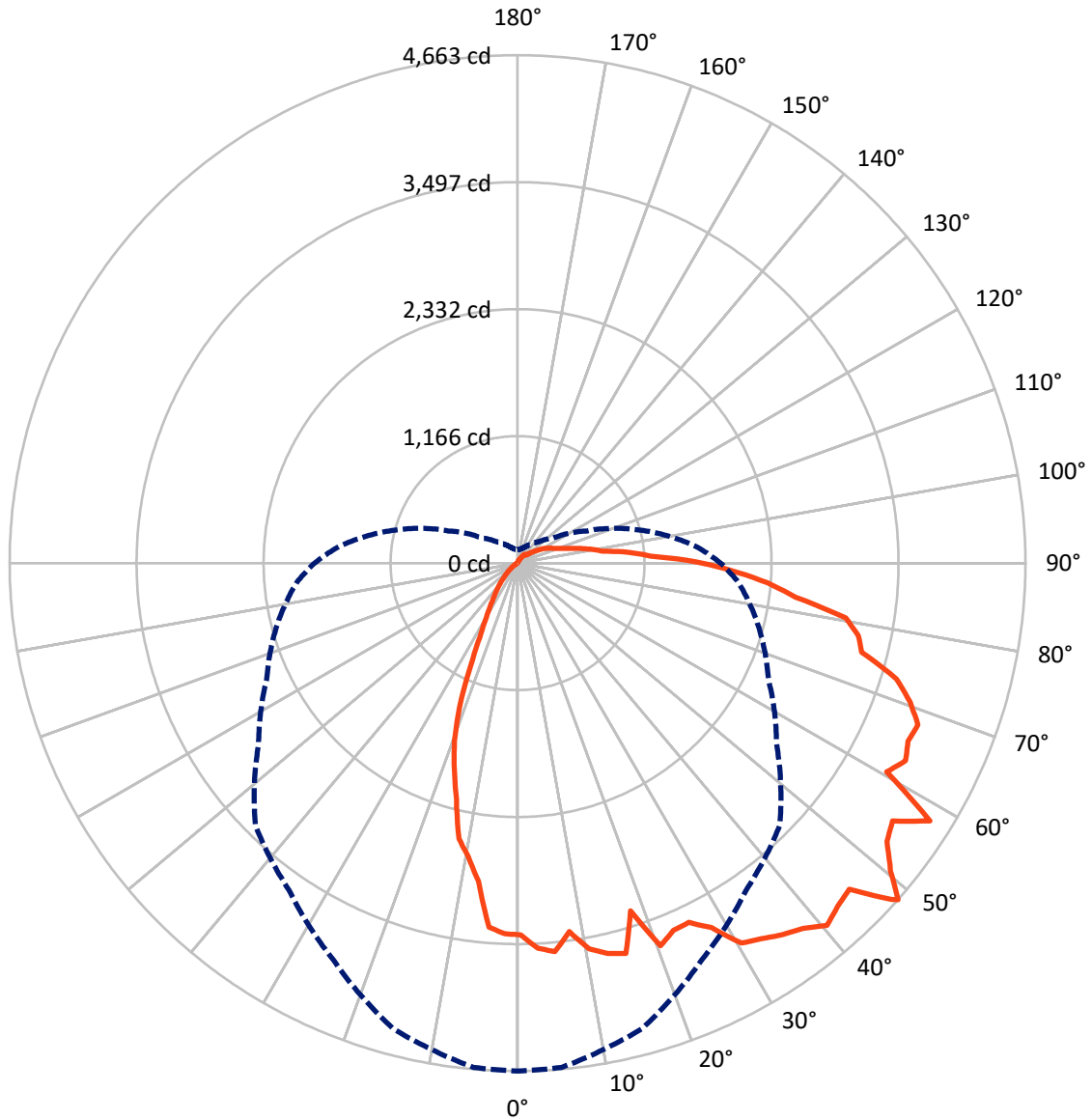
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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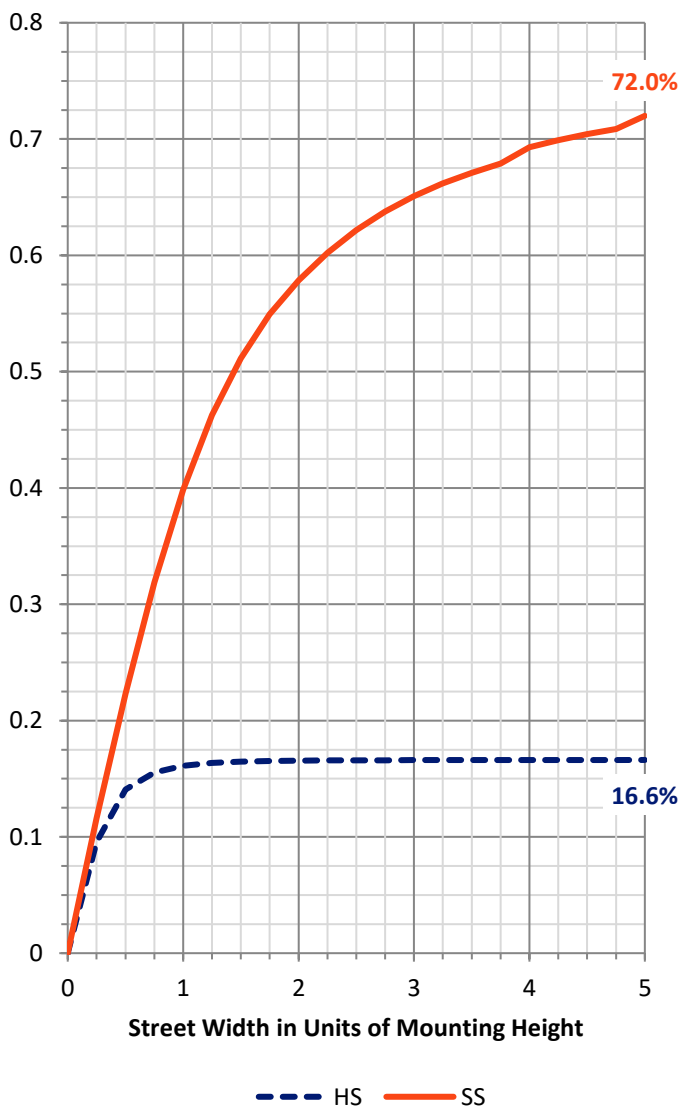
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1863.0	14.5	1877.6
	% Fixture	16.8	0.1	16.9
<b>Street Side</b>	Lumens	8507.5	694.1	9201.7
	% Fixture	76.8	6.3	83.1
<b>Total</b>	Lumens	10370.6	708.7	11079.2
	% Fixture	93.6	6.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	2.9
10°-20°	875.8	7.9
20°-30°	1220.8	11.0
30°-40°	1432.4	12.9
40°-50°	1553.6	14.0
50°-60°	1548.3	14.0
60°-70°	1434.4	12.9
70°-80°	1202.1	10.8
80°-90°	780.1	7.0
90°-100°	352.0	3.2
100°-110°	167.0	1.5
110°-120°	92.8	0.8
120°-130°	50.7	0.5
130°-140°	27.7	0.3
140°-150°	13.3	0.1
150°-160°	4.1	0.0
160°-170°	0.8	0.0
170°-180°	0.1	0.0
0°-90°	10370.6	93.6
0°-180°	11079.2	100.0



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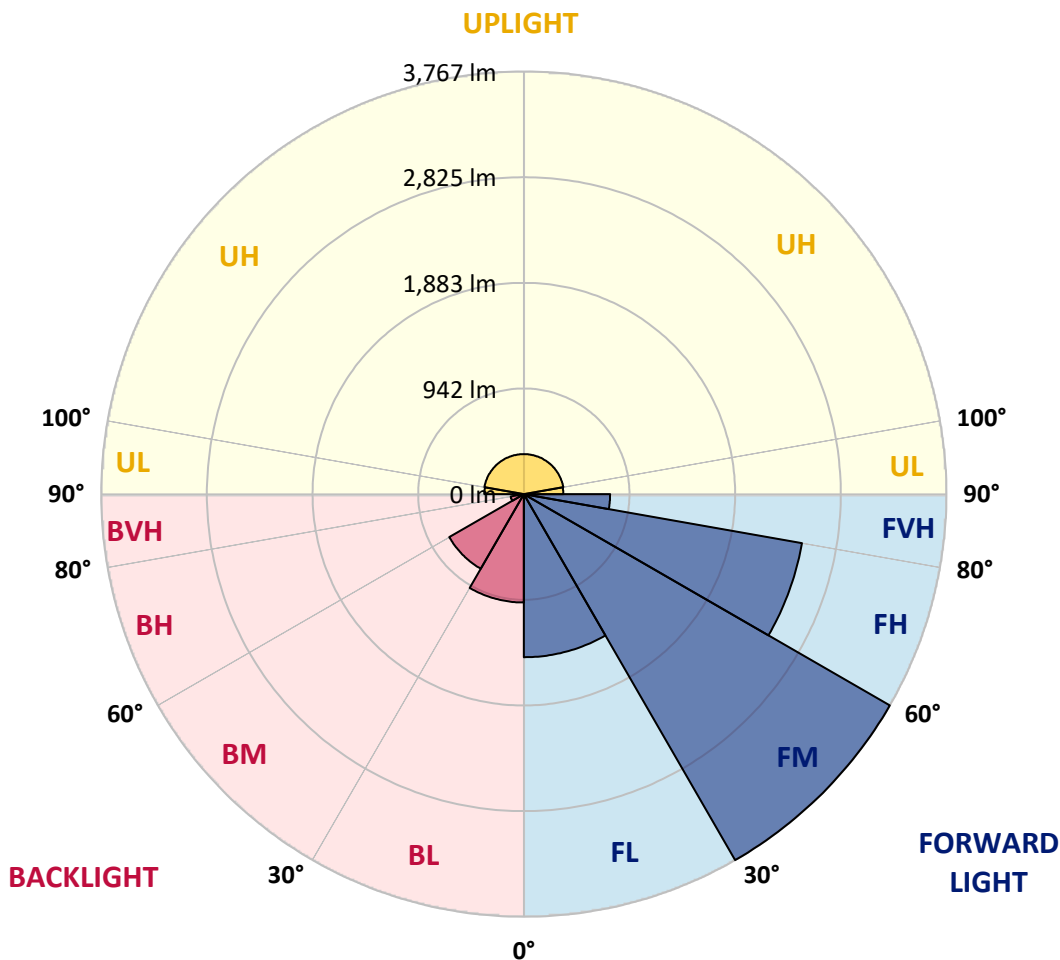
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.9	13.1			
FM (30°-60°)	3766.8	34.0			
FH (60°-80°)	2517.4	22.7			G2/5000
FVH (80°-90°)	769.4	6.9			G5
BL (0°-30°)	965.7	8.7	B2/1000		
BM (30°-60°)	767.6	6.9	B1/1000		
BH (60°-80°)	119.0	1.1	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	352.0	3.2		U3/500	
UH (100°-180°)	356.7	3.2		U3/500	

**BUG Rating: B2-U3-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3539.2	3540.8	3533.6	3530.4	3528.8	3516.9	3502.5	3496.1	3484.9	3441.0	3410.7
5°	3582.3	3578.3	3576.7	3586.3	3603.9	3621.4	3560.0	3508.1	3477.0	3451.4	3401.1
7.5°	3416.3	3417.9	3425.9	3464.2	3548.8	3567.9	3579.9	3571.9	3494.5	3452.2	3385.2
10°	3601.5	3590.3	3558.4	3477.8	3423.5	3418.7	3550.4	3559.2	3502.5	3451.4	3366.0
12.5°	3676.5	3663.7	3635.0	3591.9	3552.8	3428.3	3413.9	3515.3	3528.0	3414.7	3321.3
15°	3718.8	3744.4	3793.0	3809.8	3640.6	3566.4	3368.4	3433.1	3493.7	3374.8	3278.2
17.5°	3356.4	3350.0	3350.8	3483.3	3750.7	3631.0	3469.0	3315.7	3397.9	3303.7	3212.8
20°	3749.9	3722.0	3619.0	3367.6	3362.8	3700.4	3482.5	3215.1	3303.7	3231.1	3144.9
22.5°	3660.5	3650.2	3690.1	3761.9	3413.1	3322.1	3568.7	3247.1	3235.1	3152.1	3073.9
25°	3654.2	3639.8	3592.7	3582.3	3710.0	3243.9	3454.6	3291.8	3154.5	3063.5	2997.2
27.5°	3789.8	3749.1	3615.0	3580.7	3496.1	3567.9	3142.5	3269.4	3010.0	2975.7	2917.4
30°	4048.5	4026.1	3969.4	3717.2	3477.8	3409.9	3071.5	3287.0	2864.7	2894.3	2840.0
32.5°	4111.5	4105.1	4131.5	3920.0	3576.7	3293.4	3311.7	3120.2	2802.5	2816.8	2750.6
35°	4188.9	4178.6	4133.1	3958.3	3757.9	3281.4	3191.2	2915.0	2776.1	2743.4	2656.4
37.5°	4255.2	4230.5	4090.8	3928.7	3721.2	3469.8	3055.5	2792.9	2792.1	2650.8	2540.7
40°	4372.5	4351.8	4238.4	4020.5	3658.9	3445.8	3010.0	2850.4	2802.5	2533.5	2405.0
42.5°	4308.7	4291.9	4291.9	4070.0	3686.1	3347.6	3055.5	2879.1	2670.0	2385.0	2241.3
45°	4269.6	4253.6	4278.3	4034.1	3775.5	3298.2	3093.8	2712.3	2495.2	2238.1	2071.3
47.5°	4615.2	4590.4	4315.9	4049.3	3658.1	3376.4	2928.6	2560.6	2321.2	2069.7	1904.5
48°	4663.1	4647.1	4423.6	4012.5	3661.3	3404.3	2902.3	2542.3	2294.0	2035.4	1863.8
50°	4437.2	4446.8	4479.5	4259.2	3735.6	3302.1	2857.6	2466.4	2156.7	1897.3	1729.7
52.5°	4244.8	4228.1	4173.8	4165.8	3840.9	3196.0	2840.0	2484.8	2025.0	1736.1	1580.4
55°	4177.8	4149.0	4082.8	3939.1	3782.7	3276.6	2774.5	2266.1	1900.5	1610.0	1455.9
57.5°	4464.3	4438.0	4286.3	3844.1	3631.0	3325.3	2606.9	2104.9	1740.1	1488.6	1327.4
60°	3892.8	3888.8	3991.8	4002.2	3489.7	3192.0	2560.6	2008.3	1626.7	1374.5	1201.3
62.5°	3996.6	3966.3	3764.3	3633.4	3532.8	3037.1	2513.5	1997.1	1555.7	1252.4	1071.2
65°	3939.9	3928.7	3848.1	3571.9	3298.2	2998.0	2389.0	1832.7	1503.0	1135.0	946.7
67.5°	3964.7	3963.1	3860.9	3613.4	3231.1	2817.6	2252.5	1748.9	1333.8	1023.3	815.0
70°	3821.8	3816.2	3749.9	3564.8	3204.8	2710.7	2111.2	1727.3	1219.6	902.8	664.1
72.5°	3638.2	3632.6	3552.8	3379.6	3109.8	2628.5	1952.4	1555.7	1151.0	767.1	516.4
75°	3263.8	3259.8	3226.3	3119.4	2868.7	2465.6	1797.5	1349.8	1000.1	618.6	395.1
77.5°	3197.6	3183.2	3041.9	2853.6	2684.3	2298.8	1645.1	1196.5	912.3	482.1	283.4
80°	3056.3	3049.9	3010.0	2747.4	2468.8	2119.2	1504.6	1055.2	751.1	356.0	194.0
82.5°	2569.4	2562.2	2532.7	2458.5	2199.0	1854.2	1322.6	910.7	605.0	253.8	131.7
85°	2300.4	2292.4	2211.8	2043.4	1910.9	1597.2	1140.6	771.9	478.9	176.4	85.4
87.5°	1966.0	1982.7	1933.2	1804.7	1573.2	1333.8	941.1	634.6	364.0	118.1	55.1
90°	1630.7	1614.0	1585.2	1485.4	1334.6	1087.1	764.7	504.5	273.0	78.2	39.1
92.5°	1222.0	1225.2	1195.7	1147.0	1091.1	891.6	609.0	382.3	203.5	57.5	32.7
95°	1028.9	1023.3	1000.9	934.7	840.5	716.8	490.9	304.1	162.0	47.1	31.9
97.5°	788.6	777.4	764.7	754.3	692.0	565.1	408.7	254.6	133.3	45.5	35.1
100°	692.8	690.4	661.7	605.8	549.2	459.8	334.4	216.3	110.9	47.1	37.5
102.5°	597.9	603.4	596.3	554.7	474.9	381.5	277.0	182.0	95.0	48.7	39.1
105°	503.7	501.3	489.3	458.2	411.1	324.1	236.3	152.5	84.6	51.1	40.7
107.5°	433.4	431.8	421.4	389.5	344.0	278.6	198.0	130.1	76.6	51.1	40.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	384.7	383.1	372.0	340.8	294.5	237.9	170.0	111.7	72.6	50.3	40.7
112.5°	348.8	349.6	335.2	303.3	253.8	201.1	146.1	97.4	69.4	49.5	39.9
115°	317.7	317.7	303.3	270.6	221.9	174.8	127.7	86.2	66.3	47.9	39.1
117.5°	287.4	285.0	270.6	237.1	193.2	152.5	111.7	78.2	63.9	44.7	36.7
120°	251.4	250.6	235.5	204.3	169.2	134.1	99.8	71.8	59.9	41.5	32.7
122.5°	216.3	215.5	201.9	175.6	146.9	119.7	89.4	66.3	54.3	37.5	29.5
125°	183.6	183.6	172.4	150.9	128.5	106.2	80.6	60.7	48.7	32.7	26.3
127.5°	154.1	152.5	144.5	130.1	114.9	95.8	73.4	55.9	43.1	29.5	23.1
130°	130.9	127.7	122.9	115.7	103.8	87.0	67.8	51.9	38.3	25.5	20.8
132.5°	110.9	110.2	109.4	106.2	95.8	78.2	61.5	47.9	34.3	22.3	18.4
135°	101.4	101.4	103.8	99.8	88.6	70.2	55.1	43.1	29.5	20.0	16.0
137.5°	106.2	105.4	103.0	95.0	79.0	62.3	49.5	38.3	26.3	16.8	13.6
140°	105.4	103.8	97.4	84.6	67.8	54.3	43.1	33.5	21.6	14.4	11.2
142.5°	88.6	87.8	81.4	70.2	56.7	46.3	37.5	27.9	17.6	11.2	8.8
145°	71.8	71.0	66.3	57.5	47.9	39.1	32.7	23.1	14.4	8.8	7.2
147.5°	55.1	55.1	51.9	46.3	39.9	33.5	27.1	17.6	10.4	7.2	6.4
150°	43.9	43.9	41.5	38.3	33.5	28.7	21.6	13.6	8.0	6.4	5.6
152.5°	35.1	34.3	33.5	30.3	27.1	22.3	16.0	9.6	6.4	5.6	4.8
155°	27.9	27.9	26.3	23.9	21.6	16.8	11.2	7.2	5.6	4.0	4.0
157.5°	21.6	21.6	20.8	18.4	16.0	12.0	7.2	5.6	4.8	4.0	3.2
160°	16.8	16.0	15.2	13.6	11.2	7.2	5.6	4.0	4.0	3.2	2.4
162.5°	12.0	11.2	10.4	8.8	6.4	5.6	4.0	3.2	3.2	2.4	2.4
165°	7.2	7.2	7.2	5.6	4.8	4.0	3.2	3.2	3.2	2.4	2.4
167.5°	4.8	4.0	4.0	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4
170°	1.6	1.6	1.6	2.4	2.4	3.2	3.2	3.2	3.2	2.4	2.4
172.5°	0.0	0.8	1.6	1.6	2.4	3.2	3.2	3.2	3.2	2.4	2.4
175°	0.0	0.8	0.8	1.6	2.4	2.4	3.2	3.2	3.2	2.4	2.4
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3392.3	3406.7	3423.5	3414.7	3401.9	3386.8	3388.4	3397.9	3407.5	3403.5
5°	3390.0	3414.7	3378.8	3429.9	3448.2	3429.1	3387.6	3357.2	3355.6	3351.6
7.5°	3393.1	3376.4	3433.9	3390.0	3306.1	3155.3	3070.7	2986.1	2943.0	2943.0
10°	3388.4	3401.1	3373.2	3193.6	2995.6	2809.7	2741.0	2734.6	2733.8	2732.2
12.5°	3346.0	3396.3	3231.9	2943.8	2740.2	2725.8	2702.7	2653.2	2600.5	2587.0
15°	3294.2	3302.9	3035.6	2720.3	2693.9	2574.2	2392.2	2286.0	2240.5	2239.7
17.5°	3219.1	3162.5	2780.9	2657.2	2500.8	2260.5	2148.0	2050.6	1979.5	1982.7
20°	3144.9	2998.8	2620.5	2510.3	2220.6	2039.4	1885.3	1793.6	1744.1	1735.3
22.5°	3071.5	2845.6	2522.3	2267.7	2006.7	1789.6	1645.1	1511.8	1425.6	1421.6
25°	2994.8	2689.9	2389.0	2049.8	1780.8	1565.3	1325.8	1136.6	1049.6	1032.9
27.5°	2899.9	2503.9	2201.4	1843.0	1561.3	1257.2	985.8	837.3	780.6	759.1
30°	2796.1	2342.7	2009.9	1640.3	1297.1	953.8	751.9	645.7	599.4	594.7
32.5°	2680.4	2200.6	1832.7	1433.6	1036.9	737.5	590.7	514.0	478.9	476.5
35°	2544.7	2065.7	1637.9	1215.7	809.4	582.7	477.3	420.7	393.5	391.1
37.5°	2399.4	1909.3	1447.1	988.2	638.6	474.1	393.5	347.2	328.9	326.5
40°	2235.0	1748.9	1233.2	792.6	512.4	391.9	327.3	288.1	268.2	264.2
42.5°	2064.9	1550.9	1051.2	629.0	424.6	326.5	267.4	233.9	219.5	217.9
45°	1879.0	1370.5	879.6	507.7	351.2	269.8	218.7	186.8	172.4	168.4
47.5°	1692.2	1202.9	727.2	415.9	288.1	217.9	172.4	144.5	131.7	129.3
48°	1660.3	1169.4	698.4	401.5	278.6	209.9	163.6	135.7	125.3	124.5
50°	1520.6	1053.6	589.1	349.6	238.7	176.4	134.1	109.4	99.0	99.0
52.5°	1370.5	912.3	478.1	292.9	195.6	140.5	103.8	82.2	74.2	72.6
55°	1226.0	771.1	389.5	244.2	160.4	107.8	78.2	61.5	55.1	53.5
57.5°	1089.5	635.4	330.5	204.3	127.7	81.4	55.1	41.5	35.1	33.5
60°	959.4	522.0	281.8	168.4	100.6	59.9	37.5	24.7	18.4	18.4
62.5°	826.9	419.1	240.3	138.1	76.6	41.5	20.0	10.4	8.8	8.8
65°	710.4	343.2	200.3	110.2	54.3	23.9	4.0	0.0	0.0	0.0
67.5°	574.7	284.2	168.4	87.0	36.7	8.0	0.0	0.0	0.0	0.0
70°	447.0	233.1	138.9	67.0	20.0	0.8	0.0	0.0	0.0	0.0
72.5°	340.0	189.2	112.5	48.7	7.2	0.0	0.0	0.0	0.0	0.0
75°	249.8	150.1	91.0	32.7	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	183.6	118.1	71.0	20.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	134.1	91.8	53.5	12.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.0	71.0	40.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.3	55.9	31.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	47.1	44.7	23.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	37.5	36.7	19.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	31.9	30.3	14.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
95°	29.5	25.5	11.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	30.3	23.9	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
100°	31.9	22.3	8.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	32.7	20.8	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
105°	33.5	20.0	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	33.5	19.2	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979153  
 CATALOG NUMBER: WPMLD26S-70W-3000K

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	32.7	17.6	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	31.9	16.8	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
115°	30.3	15.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	27.9	13.6	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
120°	25.5	12.0	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	22.3	10.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
125°	20.0	9.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	17.6	8.0	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
130°	15.2	7.2	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	13.6	6.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
135°	12.0	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	10.4	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
140°	8.8	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	7.2	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	6.4	3.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2407-168-1

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 3000k

Data in this report applies to families of products including LSDL-92S-100W 3000k.

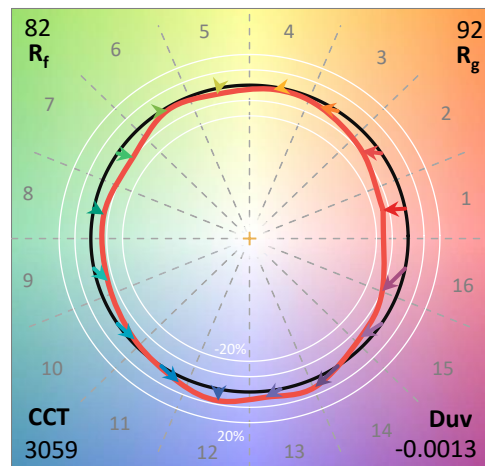
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-168-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 08/12/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Lumark  
 Catalog Number: **LSDL-92S-100W 3000k**  
 Description: Lumark Wallpack 100W

**Spectral Parameters**

CCT (K): 3059  
 CIE u': 0.2490  
 CIE v': 0.5184  
 Duv: -0.0013  
 CIE x: 0.4310  
 CIE y: 0.3988  
 CIE z: 0.1702  
 Peak Wavelength (nm): 600  
 Dominant Wavelength (nm): 583  
 Purity: 49.0643  
 Rf: 81.8  
 Rg: 91.9

CRI (Ra):	79.3		
R1:	78.1	R9:	-8.3
R2:	92.3	R10:	82.8
R3:	91.2	R11:	73.1
R4:	74.6	R12:	70.5
R5:	78.8	R13:	81.8
R6:	90.5	R14:	95.7
R7:	77.6	R15:	69.8
R8:	50.9		



**Test Conditions**

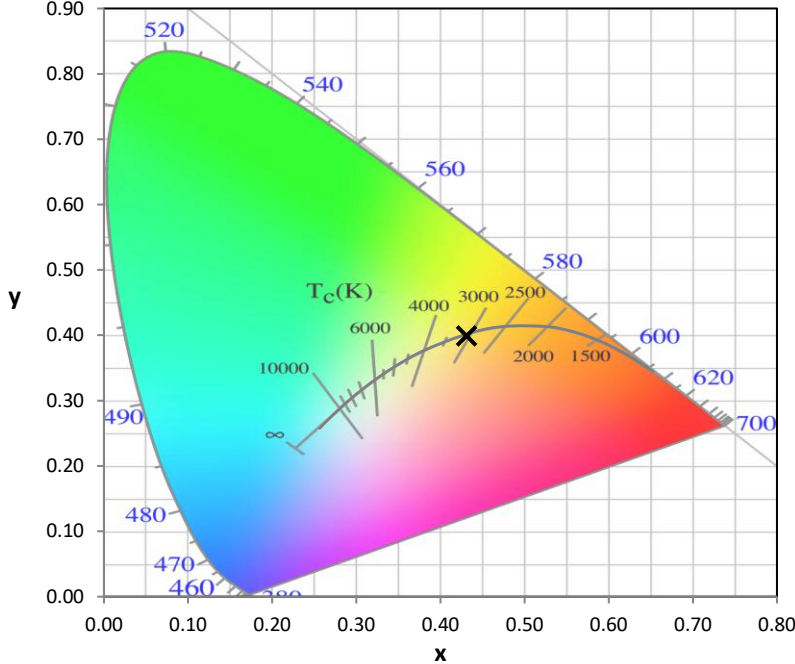
Stabilization Time: 51M  
 Operation Time: 1H 51M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-1

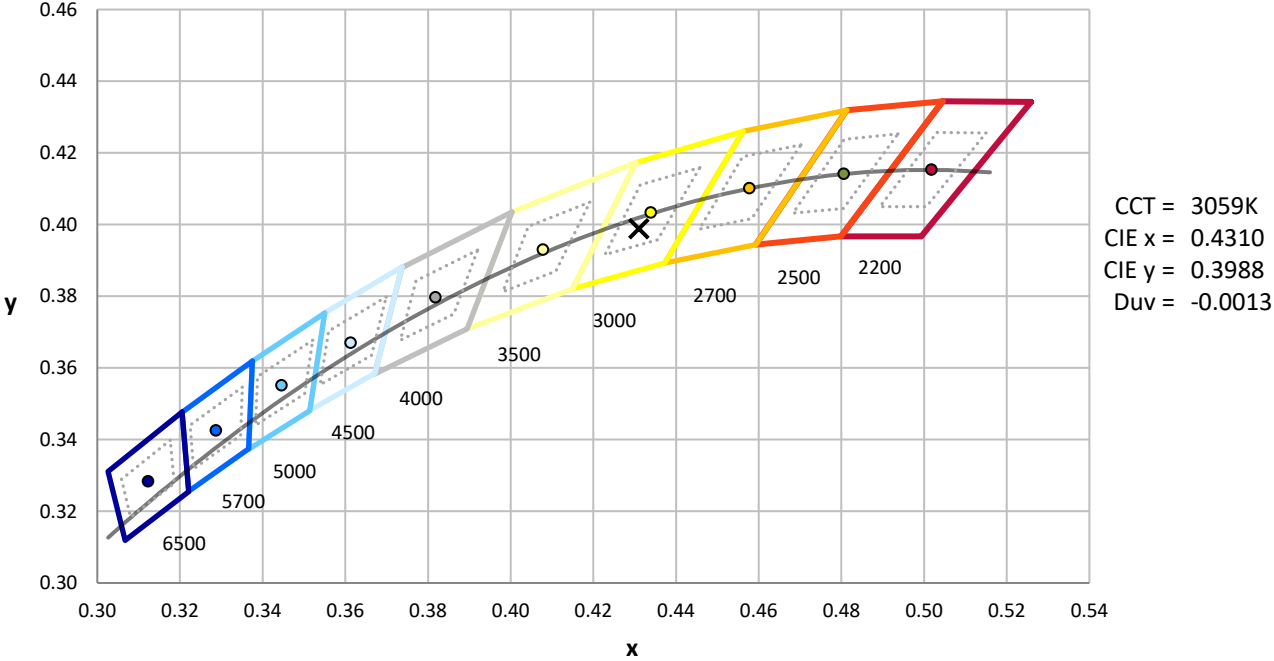
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-168-1

CIE 1931 Chromaticity Diagram



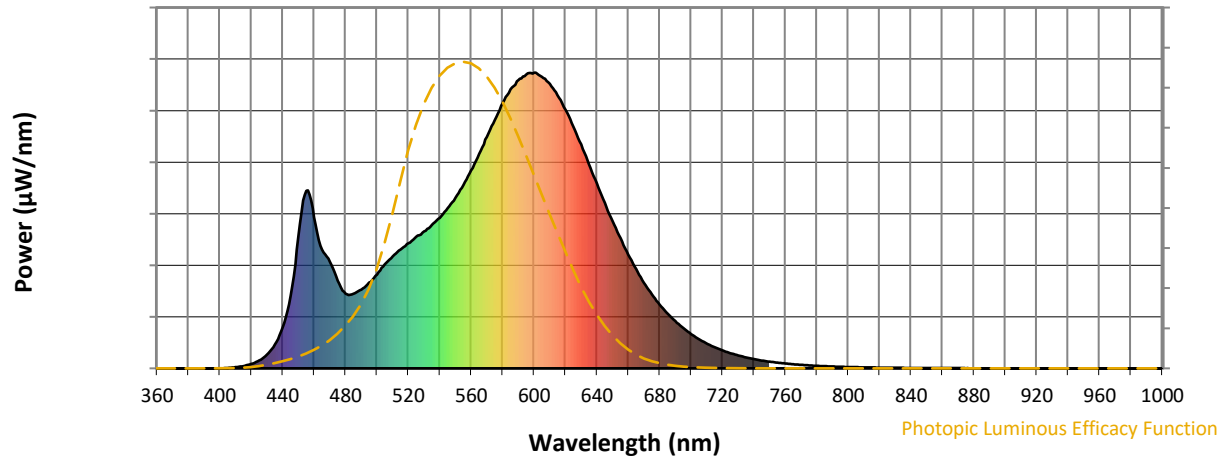
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-1

**Photopic Flux vs. Wavelength**

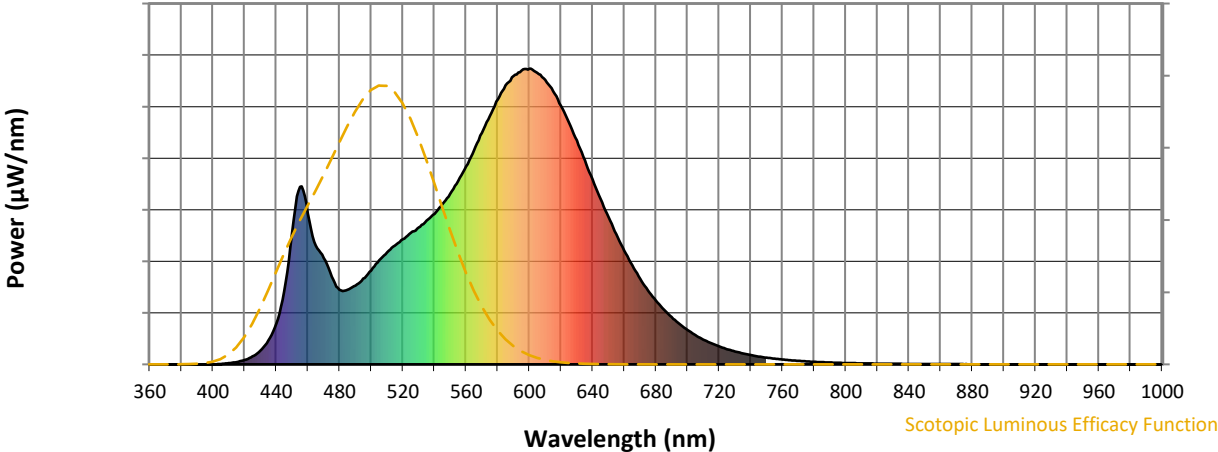


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-1

Scotopic Flux vs. Wavelength



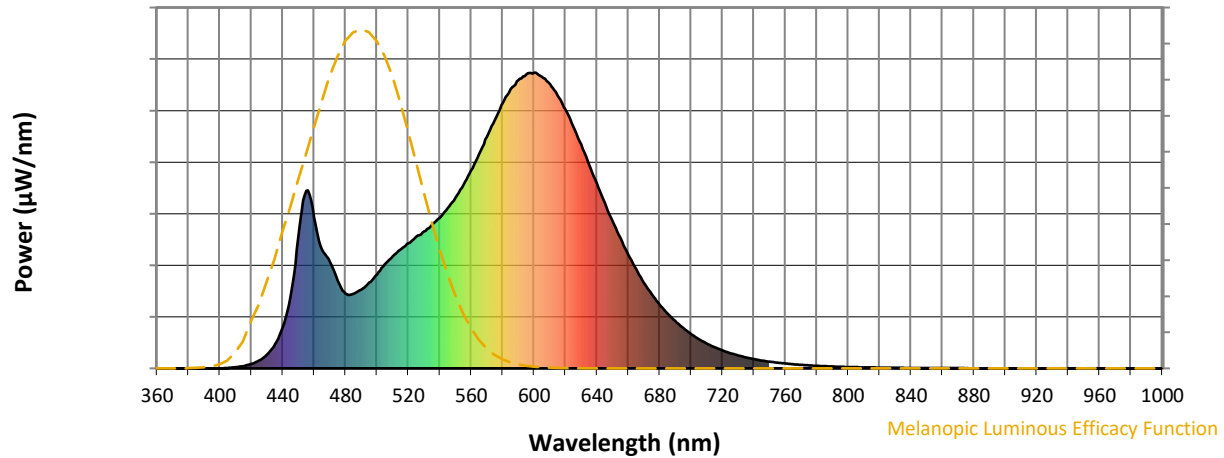
Scotopic Lumens: NR S/P: 1.39

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			



REPORT NUMBER: SP1-2407-168-1

Melanopic Flux vs. Wavelength



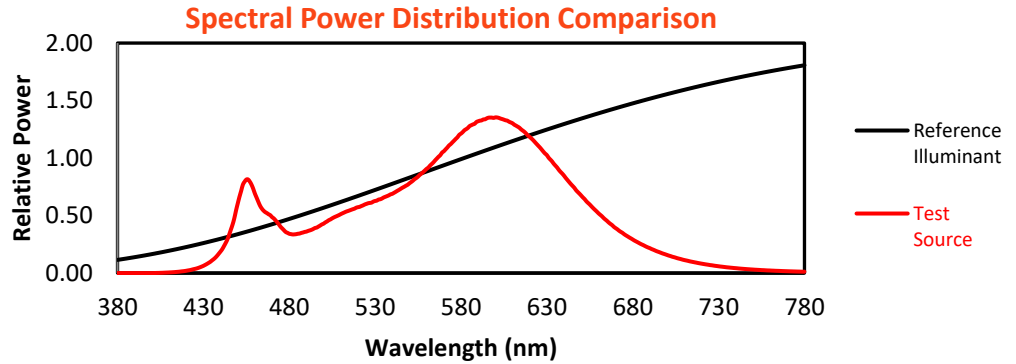
Melanopic Lumens: NR

M/P: 2.77

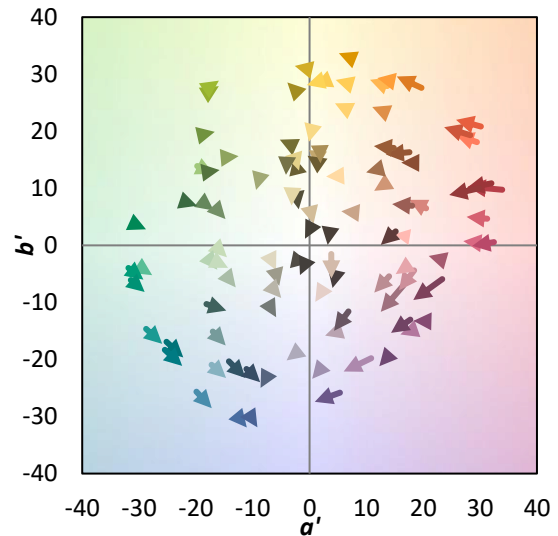
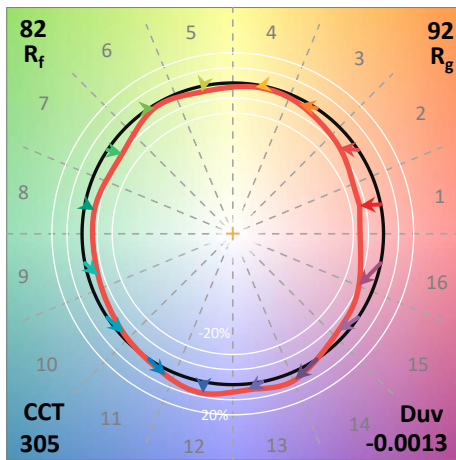
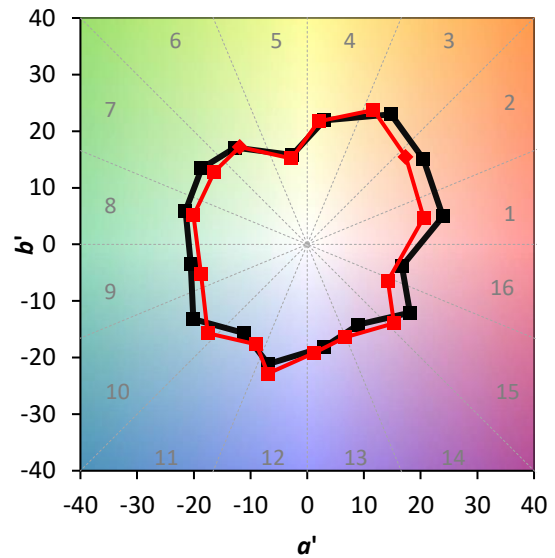
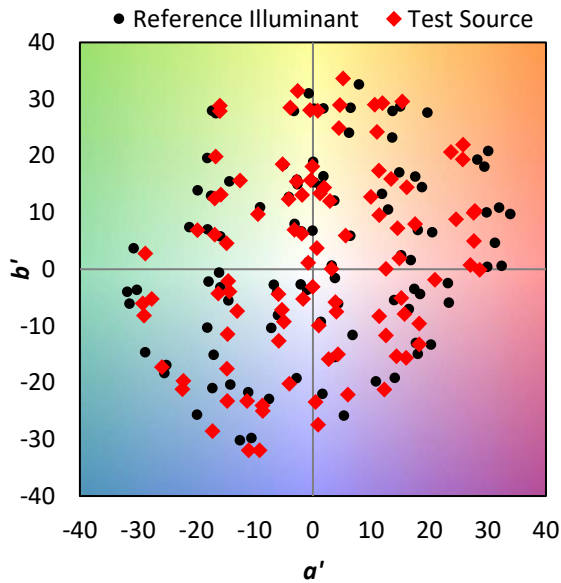
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

**Summary**

$R_f = 81.8$   
 $R_g = 91.9$   
 $CIE R_a = 79.3$   
 $R_9 = -8.3$

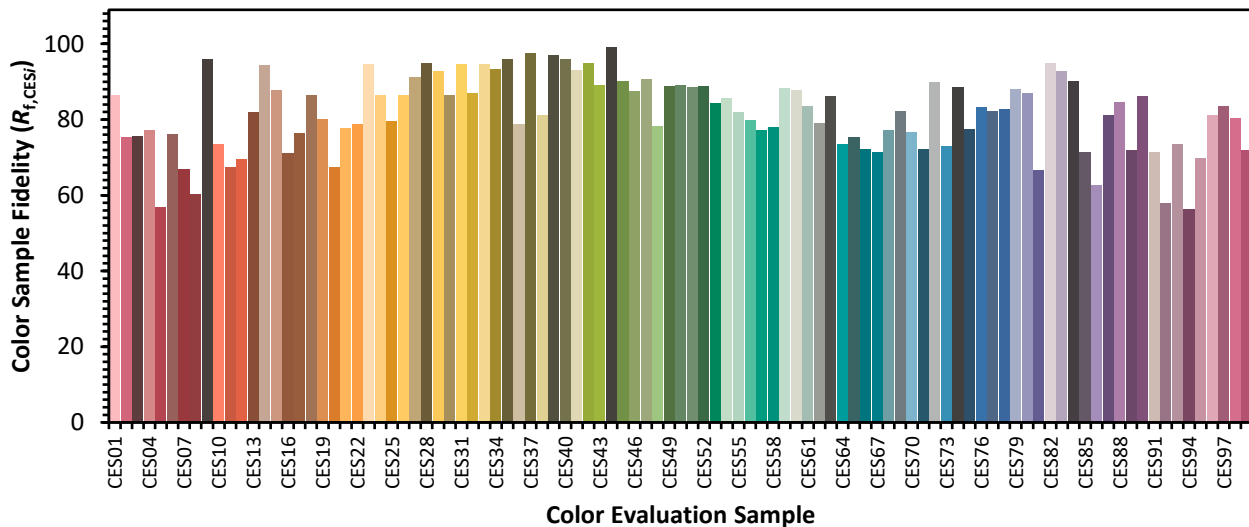


**Color Vector Graphics**

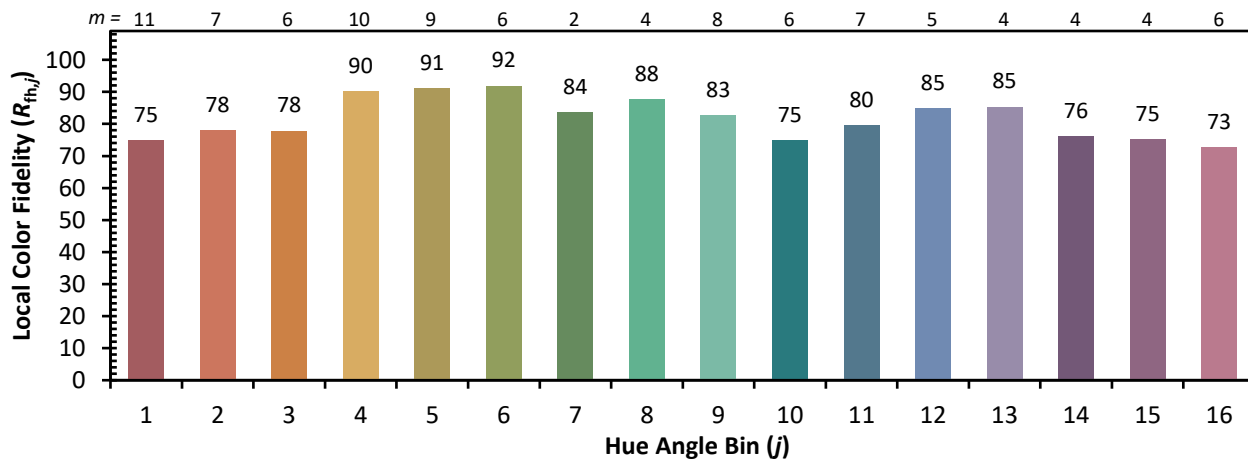
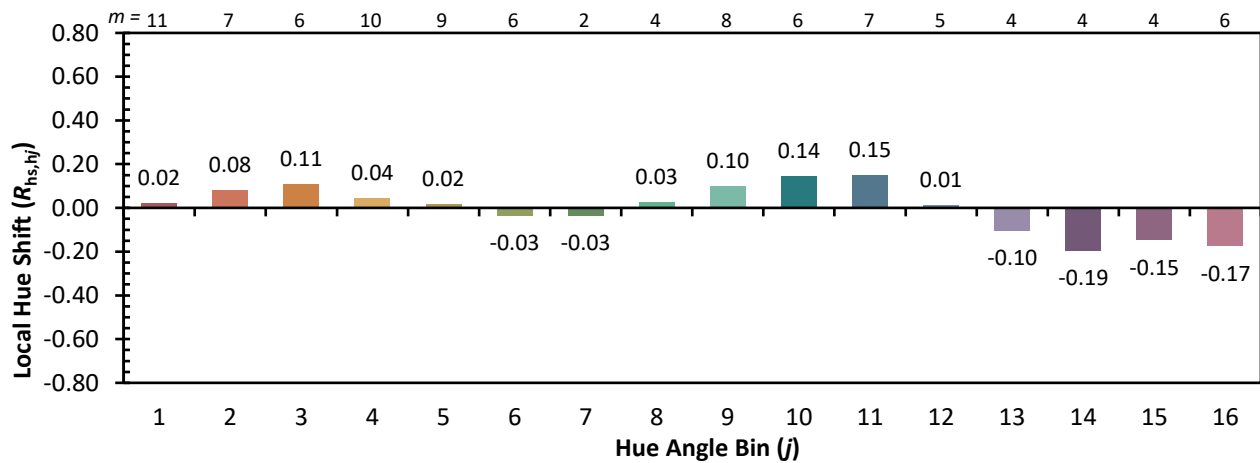
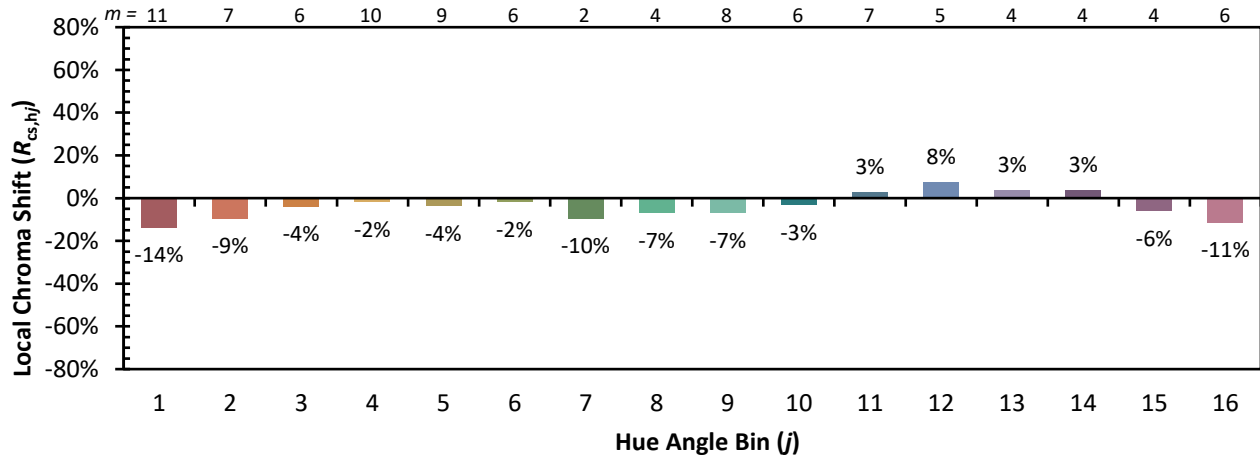


Individual Sample Fidelity Index ( $R_{f,i}$ )

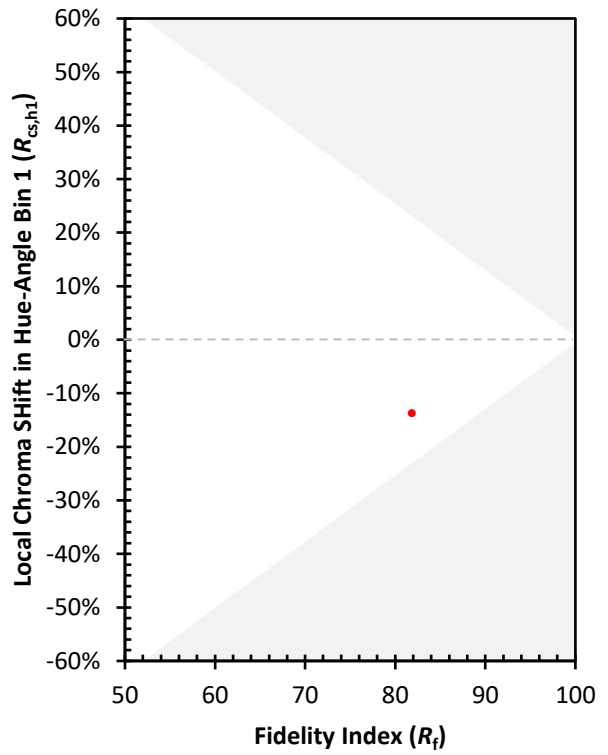
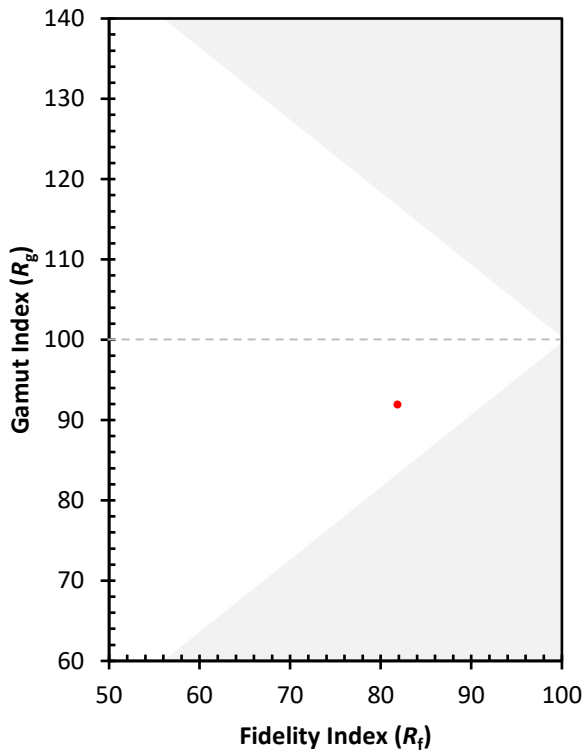
CES01 = 86	CES26 = 86	CES51 = 88	CES76 = 83
CES02 = 63	CES27 = 91	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 95	CES53 = 84	CES78 = 83
CES04 = 71	CES29 = 93	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 86	CES55 = 82	CES80 = 87
CES06 = 51	CES31 = 95	CES56 = 80	CES81 = 67
CES07 = 42	CES32 = 87	CES57 = 77	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 78	CES83 = 93
CES09 = 29	CES34 = 93	CES59 = 88	CES84 = 90
CES10 = 76	CES35 = 96	CES60 = 88	CES85 = 71
CES11 = 59	CES36 = 79	CES61 = 84	CES86 = 63
CES12 = 65	CES37 = 98	CES62 = 79	CES87 = 81
CES13 = 43	CES38 = 81	CES63 = 86	CES88 = 85
CES14 = 74	CES39 = 97	CES64 = 73	CES89 = 72
CES15 = 71	CES40 = 96	CES65 = 75	CES90 = 86
CES16 = 47	CES41 = 93	CES66 = 72	CES91 = 71
CES17 = 50	CES42 = 95	CES67 = 71	CES92 = 58
CES18 = 56	CES43 = 89	CES68 = 77	CES93 = 74
CES19 = 72	CES44 = 99	CES69 = 82	CES94 = 56
CES20 = 66	CES45 = 90	CES70 = 77	CES95 = 70
CES21 = 87	CES46 = 88	CES71 = 72	CES96 = 81
CES22 = 79	CES47 = 91	CES72 = 90	CES97 = 84
CES23 = 92	CES48 = 78	CES73 = 73	CES98 = 80
CES24 = 91	CES49 = 89	CES74 = 89	CES99 = 72
CES25 = 72	CES50 = 89	CES75 = 78	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)